

The Commonwealth of Massachusetts
Executive Office of Health and Human Services
Department of Public Health
William A. Hinton State Laboratory Institute
305 South Street, Jamaica Plain, MA 02130

DEVAL L. PATRICK
GOVERNOR

TIMOTHY P. MURRAY
LIEUTENANT GOVERNOR

JUDYANN BIGBY, MD
SECRETARY

JOHN AUERBACH
COMMISSIONER

11/29/2011

Edward Curley
Assistant District Attorney, Suffolk County

Dear ADA Curley,

Enclosed is the information you requested in regards to Commonwealth vs. [REDACTED] Included are copies of the following:

1. Curriculum Vitae for Annie Dookhan and Kate Corbett.
2. Drug Analysis Laboratory Receipt.
3. Control Cards with analytical results for samples # [REDACTED]
4. Analysis sheets with custodial chemist's hand notations and test results.
5. GC/Mass Spectral analytical data for samples # [REDACTED]

Annie Dookhan was the custodial chemist and performed the preliminary testing and net weight for this sample. Kate Corbett analyzed the GC/MS data for this sample.

If you have any questions about these materials, please call me at the number below.

Sincerely,

A handwritten signature in black ink, appearing to read "Annie Dookhan".

Annie Dookhan
Chemist
Drug Analysis Lab
Jamaica Plain, MA. 02130
(617) 983-6622

Curriculum Vitae

Annie Khan (Dookhan)

Education:

University of Massachusetts, Boston, Ma, Master of Science in Chemistry.
University of Massachusetts, Boston, Ma, Bachelor of Science in Biochemistry.

Experience:

2003 – present

Chemist I, II, Massachusetts Department of Public Health, Drug Analysis Laboratory

- *Completed six-week training course conducted by senior staff within the Department of Public Health, Drug Analysis Laboratory.
- *Appointed Assistant Analyst by Assistant Commissioner of Public Health, 2004.
- *Responsible for the identification of illicit drugs to determine violations of harmful and narcotic drug laws.
- *Trained in the use of complex analytical instrumentation, microscopes and balances for the purpose of drug analysis.
- *Maintenance and repairs of all analytical instruments.
- *Responsible for the Quality Control of all analytical instruments, reagents and controls/standards.
- *Oversee the Quality Control/Quality Assurance program for the Drug Lab.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs) and Protocols.
- *Notary Public.
- *Qualified as an expert witness in Massachusetts Courts and U.S. District Court

2001 – 2003

QC Analyst I, II, UMMS-Massachusetts Biologic Laboratory, QC Material Control

- *Completed proficiency training conducted by a member of the staff within the MLB Quality Control and Quality Assurance Department.
- *Method Development for creating new techniques and enhancing vaccines for the QC Dept. and FDA.
- *Writing, revising and reviewing Standard Operating Procedures (SOPs).
- *Trained and supervised new chemists and interns for the department.
- *Routine QC testing of products for the FDA.
- *Trained in the use of complex analytical instrumentation, and balances for the purpose of QC analysis for product and validation projects.
- *Calibration, preventive maintenance, QC and QA of analytical instrumentation.
- *Complete testing of chemicals for Vendor Validation Project for the FDA.
- *Compendial testing and interpretation of the USP, ACS, FCC, AOAC, Merck Index, PDR, etc.

Additional Training:

Dept. of Justice – Forensics Professionals. (numerous trainings)
GLP/GMP training with Massachusetts Biologic Laboratory.
QC/QA training according to FDA Codes and Regulations.
GC and GC/MS trainings with Agilent Technologies and Restek.
HPLC and LC/MS/MS trainings with Waters Cooperation.
FTIR training with Spectros.
TOC training with MBL and Sievers.

Association:

American Chemical Society (ACS)
Northeastern Association of Forensics Science (NEAFS)

Curriculum Vitae

Kate A. Corbett

Education

Bachelor of Science Degree, CHEMISTRY May 2003

MERRIMACK COLLEGE

Coursework included: Organic Chemistry, Inorganic Chemistry, Quantitative Analysis, Instrumental Analysis, Physical Chemistry, Physics, Calculus

Employment

Chemist II State Laboratory Institute (March 2008-Present)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance and trafficking substances to determine violation of the Massachusetts drug laws
- Responsible for the identification of pharmaceuticals to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation, microscopes and balances for forensic drug analysis

Chemist I State Laboratory Institute (2005-March 2008)

Massachusetts Department of Public Health

Drug Analysis Laboratory

- Responsible for the identification of substance to determine violation of the Massachusetts drug laws
- Operate analytical instrumentation for the purpose of performing forensic drug analysis
- Successfully completed an eight week training course in the analysis of drugs conducted by senior staff of the Department of Public Health, Drug Analysis Laboratory
- Appointed an assistant analyst for the Department of Public Health, Drug Analysis Laboratory in 2005.

Research Associate (September 2003 – August 2005)

SENSOR TECHNOLOGIES, INC - Shrewsbury, MA

- Prepared chemistries used in making sensor beads
- Generated and examined sensors employing fluorescence spectroscopy
- Performed protein, dye and sugar assays using UV/VIS spectrophotometry
- Carried out titrations on ricin using fluorescence correlation spectroscopy
- Statistical analysis of experimental data

Intern (March 2003 – August 2003)

MASSACHUSETTS STATE POLICE CRIME LABORATORY - Sudbury, MA

- Assisted in the gathering of case files to fulfill the National Institute of Justice's No Suspect Backlog Reduction Grant
- Observed in the Evidence, Criminalistics, DNA, Drug, Trace, Toxicology, and Bomb/Arson Units



DRUG RECEIPT

CC # _____

BOOK # 71

PAGE # 180

DESTRUCTION #

District/Unit B-3 Room # 1 Serial # 16750

Name & Rank of Arresting Officer R. E. Ross /P. Foley ID# 11685

To be completed by ECU personnel only

Name and Rank of Submitting Officer Sybil White ID# 11064

Received by MR Date 10-7-70

ECU Control #

No. [REDACTED]

Date Analyzed:

11/25/10
11/2/10

City: Boston D.C.U. Police Dept.

Officer: P.O. SYBIL WHITE

Def: [REDACTED]

Amount:

Subst: SUB

No. Cont: 2 Cont: pb

Date Rec'd: 10/14/2010

No. Analyzed:

Gross Wt.: 146.02

Net Weight: 128.1

Tests: 12 ASD

Prelim: Cocaine

Findings:

Cocaine

DRUG POWDER ANALYSIS FORM

SAMPLE # [REDACTED] AGENCY Boston ANALYST AJ

No. of samples tested: _____ Evidence Wt: _____

PHYSICAL DESCRIPTION: Gross Wt (2): 135.9

white powdered + chunky
substance in
2 pbs

Gross Wt (): _____

Pkg. Wt: _____

Net Wt: _____

PRELIMINARY TESTS

Spot Tests

Cobalt
2 Thiocyanate (+) +
2 Marquis —
2 Froehde's —
2 Mecke's —

Microcrystalline Tests

Gold
2 Chloride +
2 TLTA (-) +

OTHER TESTS

PRELIMINARY TEST RESULTS

RESULTS cocaine

DATE 10-27-10

GC/MS CONFIRMATORY TEST

RESULTS cocaine

MS
OPERATOR ICAC

DATE 11-2-10

Sample #: [REDACTED]

samples tested: 2

#	Gross Weight	Packet Weight	Net Weight	#	Gross Weight	Packet Weight	Net Weight
1	128.6	4.0	124.6	26	off white chunky + powdered sub.		
2	7.3921	3.8846	3.5075	27	double bagged → off white chunky sub		
3				28			
4				29			
5				30			
6				31			
7				32			
8				33			
9				34			
10				35			
11				36			
12				37			
13				38			
14				39			
15				40			
16				41			
17				42			
18				43			
19				44			
20				45			
21				46			
22				47			
23				48			
24				49			
25				50			

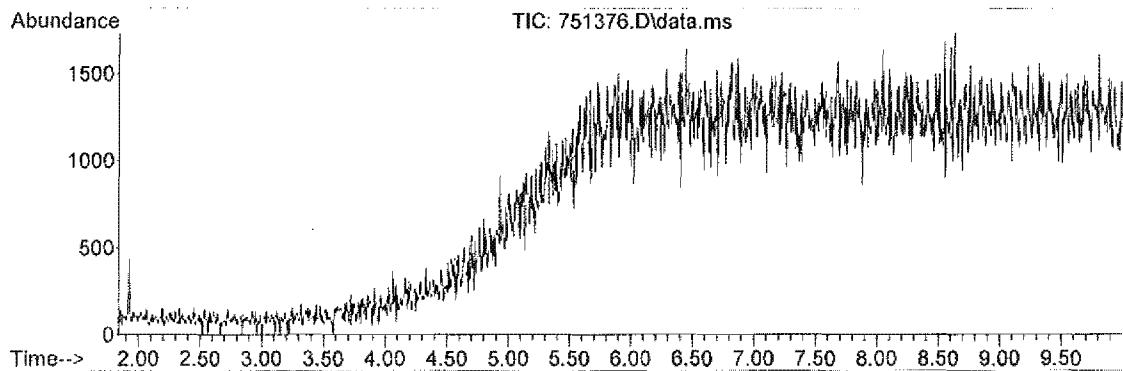
Calculations:

$$\text{Net wt} = 128.1075$$

Area Percent / Library Search Report

Information from Data File:

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Operator : ASD
Date Acquired : 29 Oct 2010 2:07
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



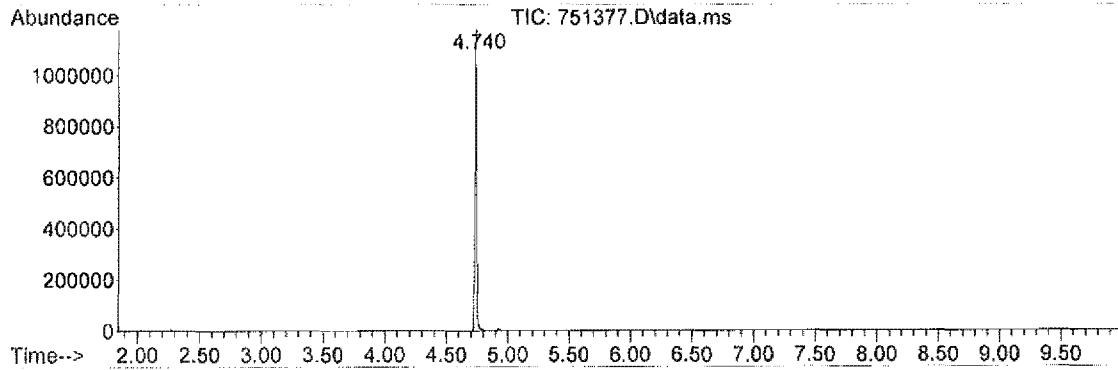
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751377.D
Operator : ASD
Date Acquired : 29 Oct 2010 2:20
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 77
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.740	1185037	100.00	100.00

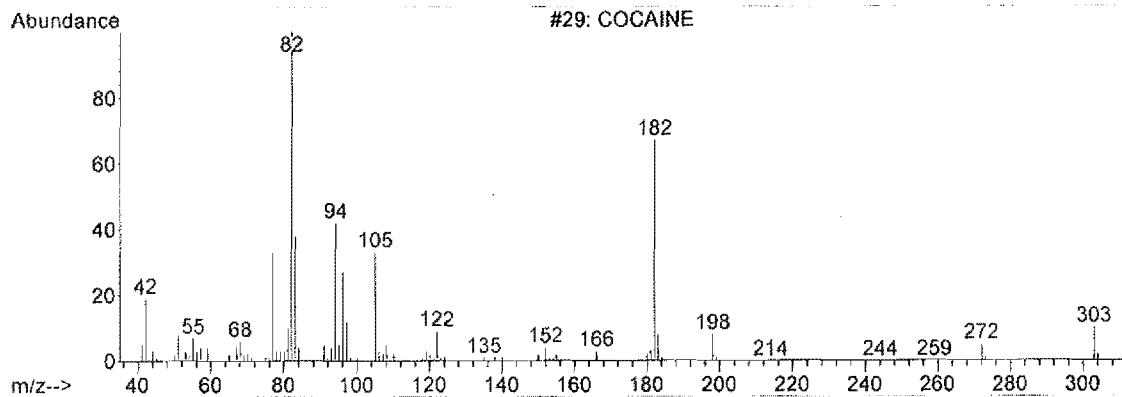
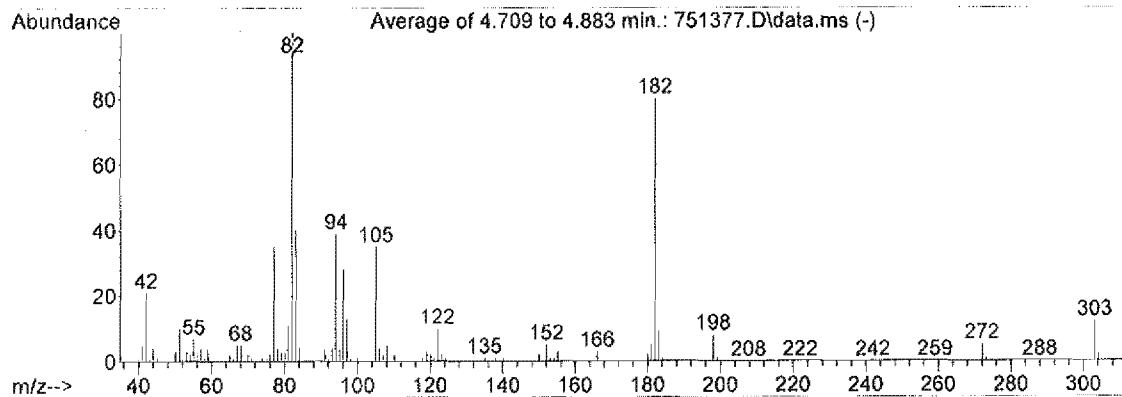
Area Percent / Library Search Report

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Operator : ASD
Date Acquired : 29 Oct 2010 2:20
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 77
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

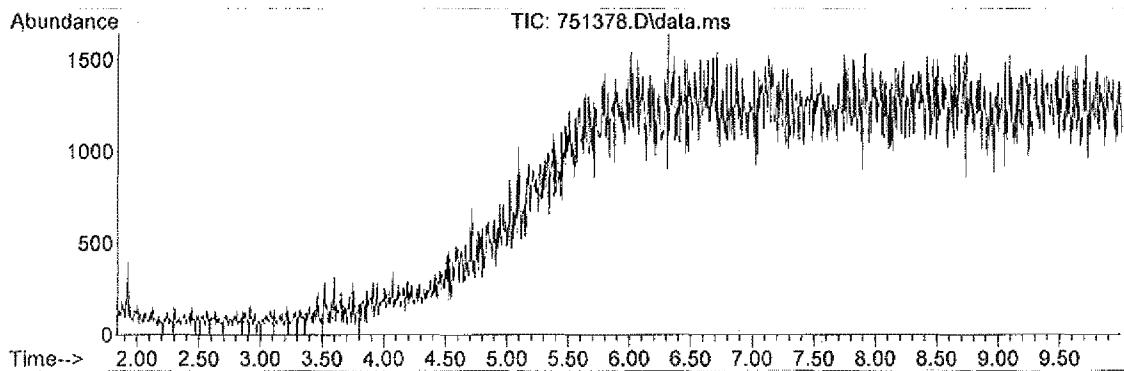
PK#	RT	Library/ID	CAS#	Qual
1	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

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Operator : ASD
Date Acquired : 29 Oct 2010 2:34
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



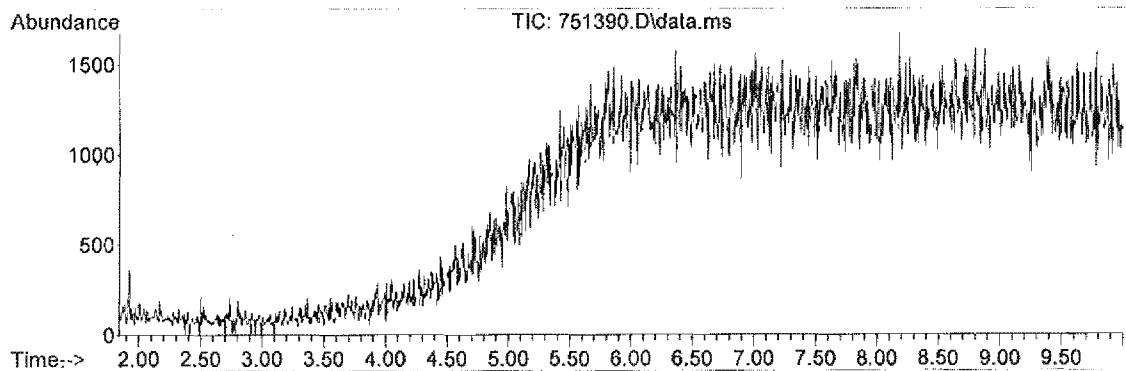
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

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File Name : F:\Q4-2010\SYSTEM4\10_28_10\751390.D
Operator : ASD
Date Acquired : 29 Oct 2010 5:21
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



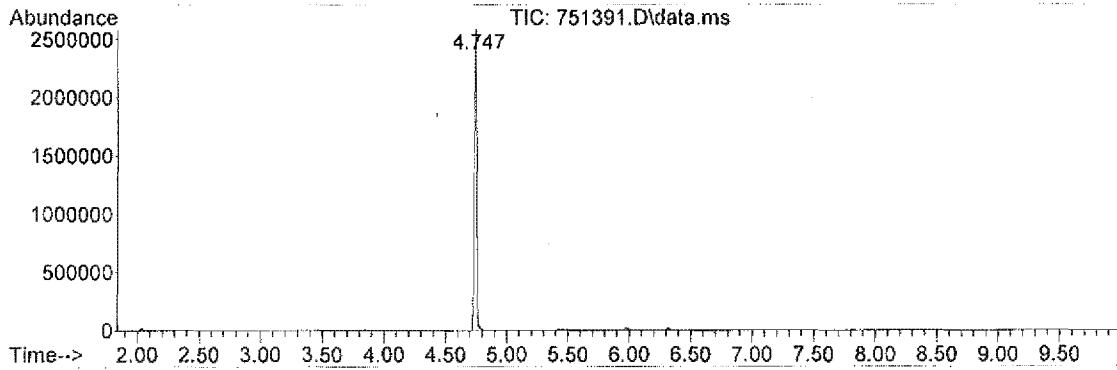
Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751391.D
Operator : ASD
Date Acquired : 29 Oct 2010 5:34
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 91
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.747	3140597	100.00	100.00

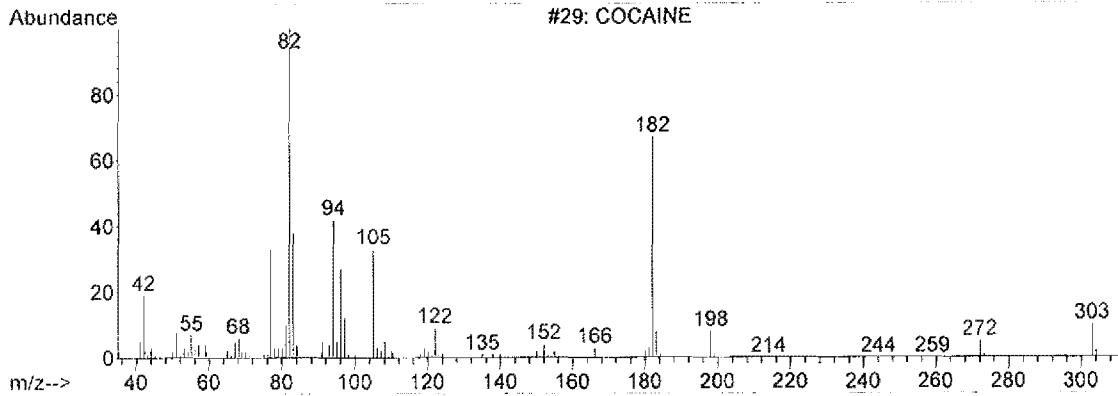
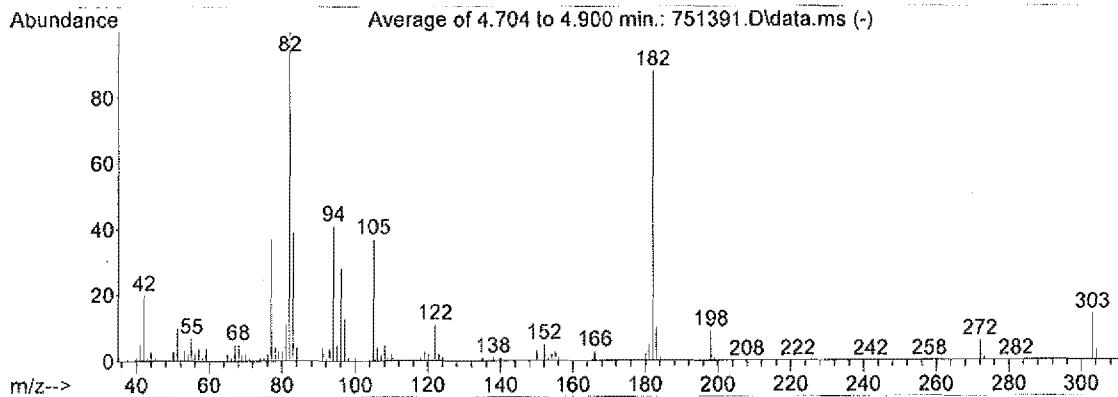
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751391.D
Operator : ASD
Date Acquired : 29 Oct 2010 5:34
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 91
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

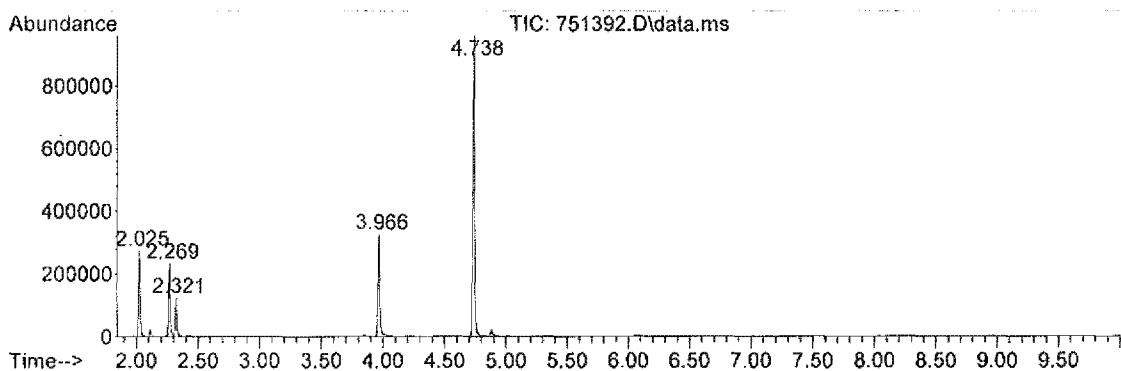
PK#	RT	Library/ID	CAS#	Qual
1	4.75	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751392.D
Operator : ASD
Date Acquired : 29 Oct 2010 5:48
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 92
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
2.025	230627	12.68	25.28
2.269	209800	11.53	23.00
2.321	114283	6.28	12.53
3.966	352146	19.36	38.61
4.738	912112	50.14	100.00

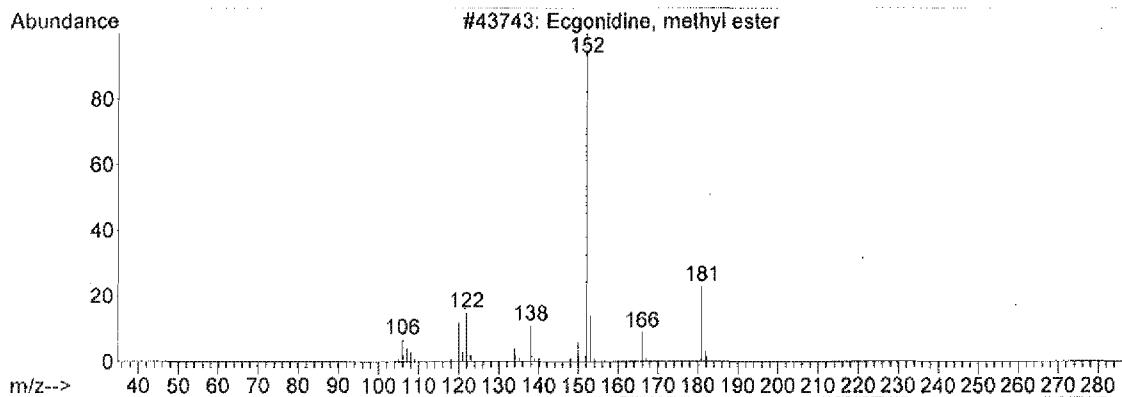
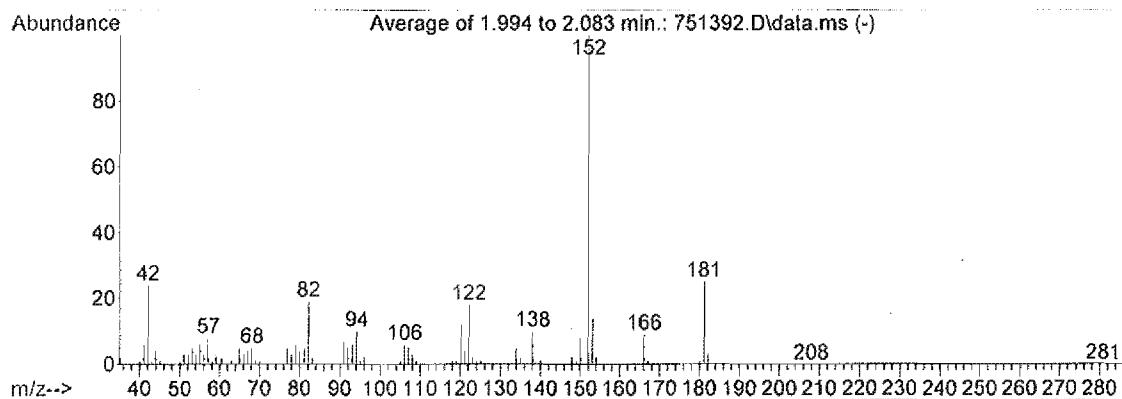
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751392.D
Operator : ASD
Date Acquired : 29 Oct 2010 5:48
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 92
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	2.03	C:\Database\NIST05a.L		
		Ecgonidine, methyl ester	127379-24-2	98
		2-Carbomethoxy-8-methyl-8-azabicycl	043021-26-7	95
		2,6-Dimethoxytoluene	005673-07-4	43



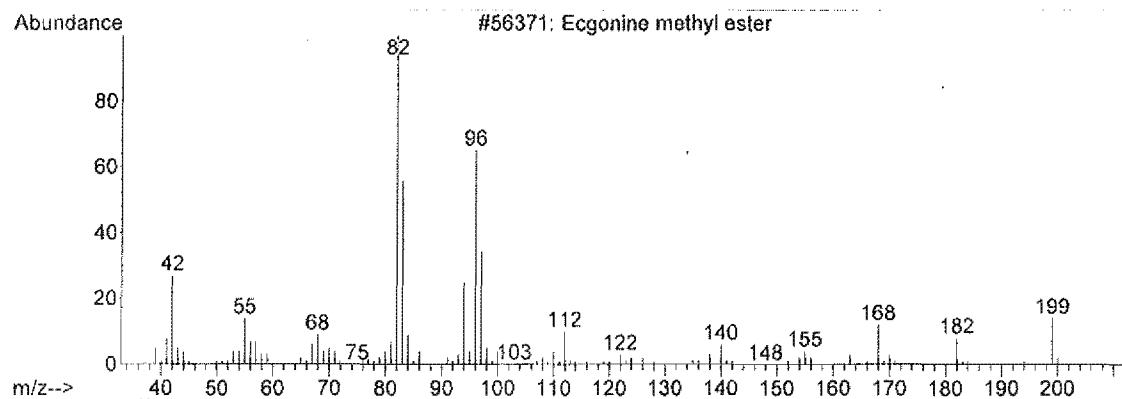
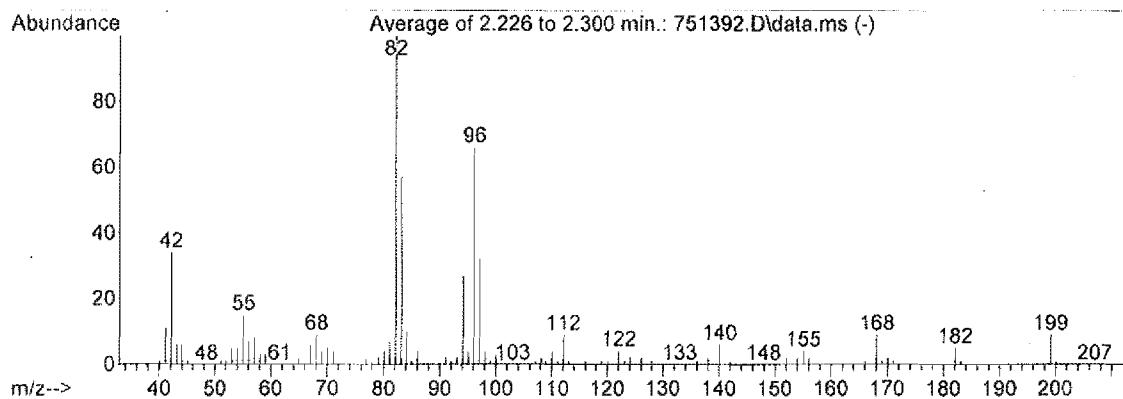
Area Percent / Library Search Report

Information from Data File:

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Operator : ASD
Date Acquired : 29 Oct 2010 5:48
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 92
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
2	2.27	C:\Database\NIST05a.L		
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	97
		Ecgonine methyl ester	106293-60-1	97



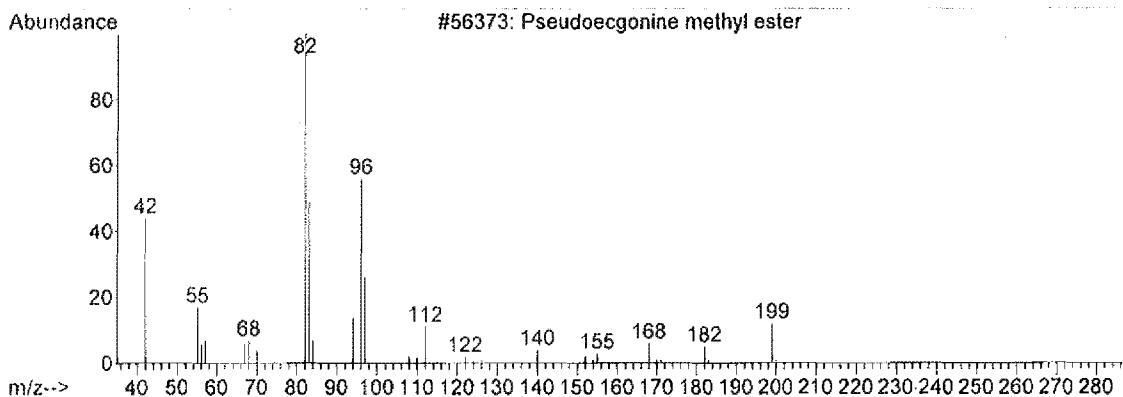
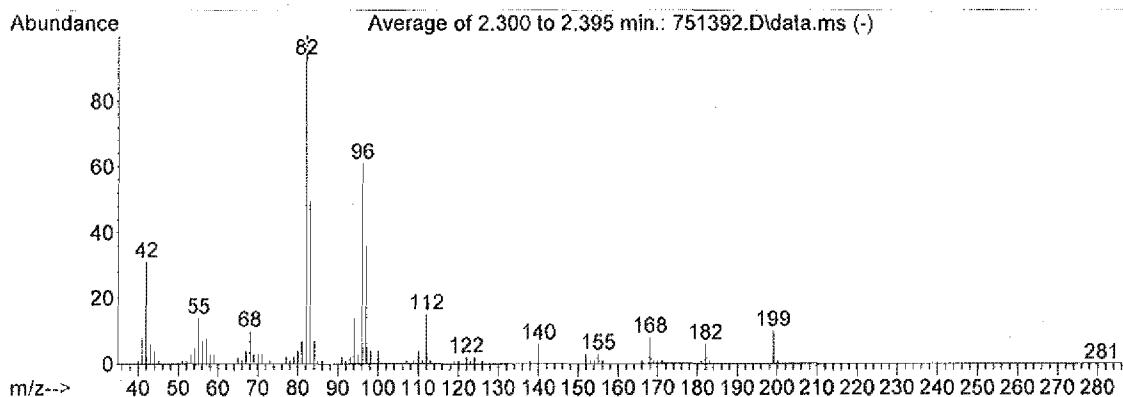
Area Percent / Library Search Report

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 Operator : ASD
 Date Acquired : 29 Oct 2010 5:48
 Sample Name : XXXXXXXXXX
 Submitted by : ASD
 Vial Number : 92
 AcquisitionMeth: DRUGS
 Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
 C:\Database\NIST05a.L Minimum Quality: 70
 C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
3	2.32	C:\Database\NIST05a.L		
		Pseudoecgonine methyl ester	099189-88-5	96
		Ecgonine methyl ester	106293-60-1	94
		Ecgonine methyl ester	106293-60-1	94



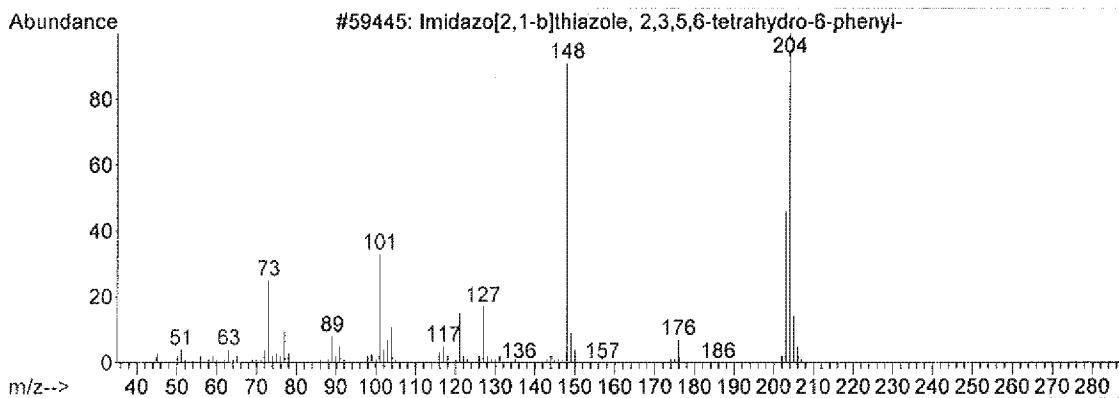
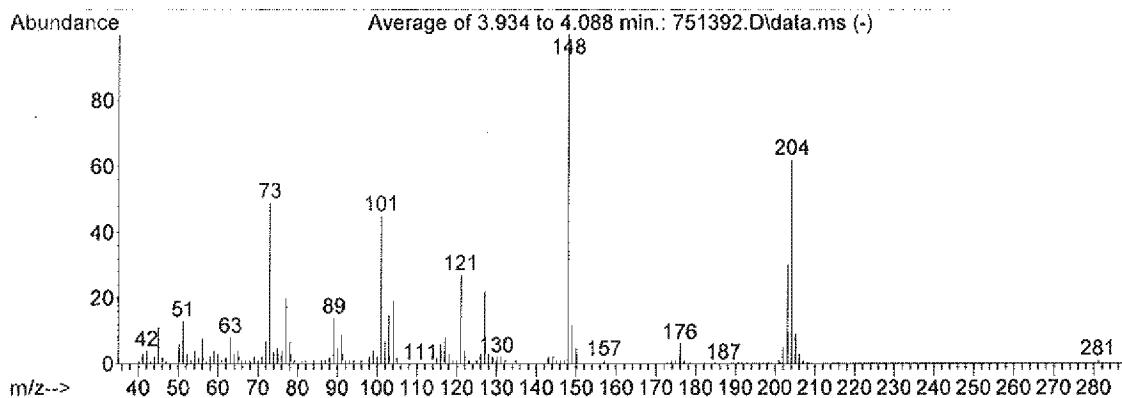
Area Percent / Library Search Report

Information from Data File:

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Operator : ASD
Date Acquired : 29 Oct 2010 5:48
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 92
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
4	3.97	C:\Database\NIST05a.L		
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	006649-23-6	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	99
		Imidazo[2,1-b]thiazole, 2,3,5,6-tet	014769-73-4	98



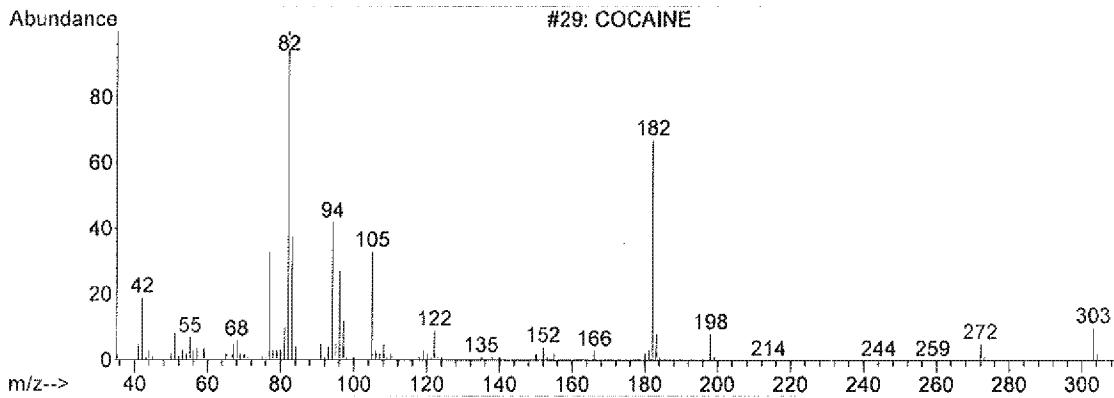
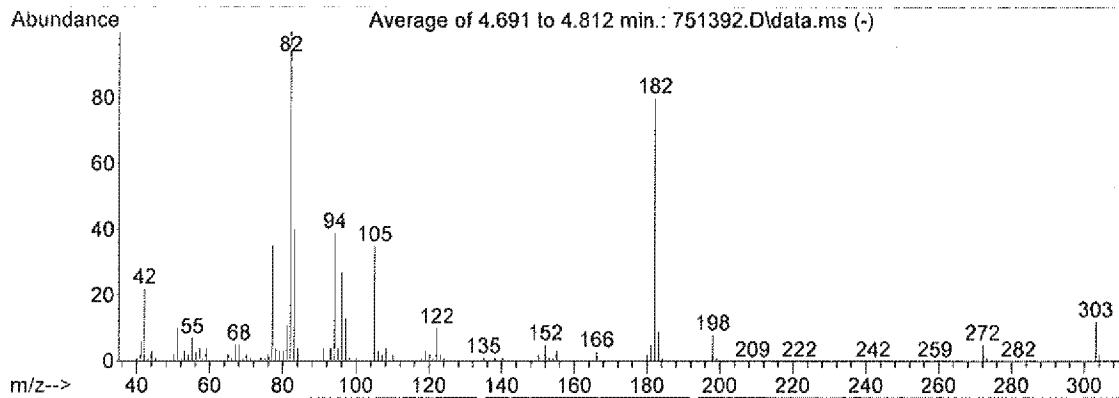
Area Percent / Library Search Report

Information from Data File:

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Operator : ASD
Date Acquired : 29 Oct 2010 5:48
Sample Name : XXXXXXXXXX
Submitted by : ASD
Vial Number : 92
AcquisitionMeth: DRUGS
Integrator : RTE

Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

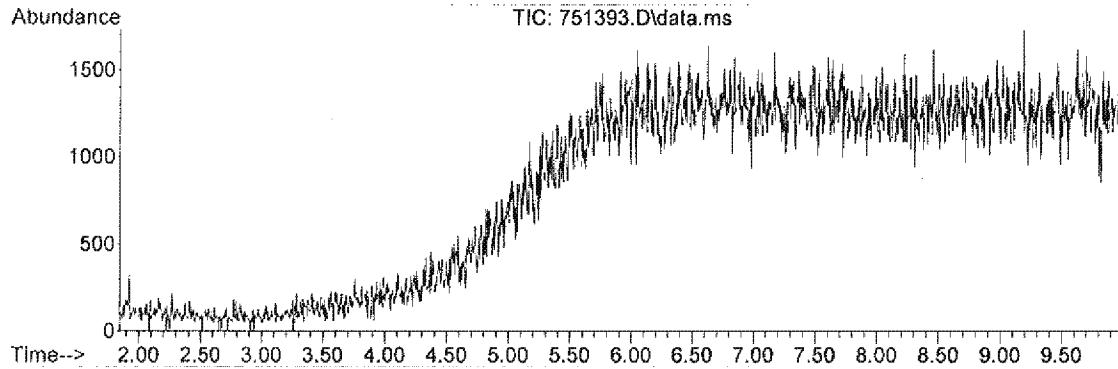
PK#	RT	Library/ID	CAS#	Qual
5	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751393.D
Operator : ASD
Date Acquired : 29 Oct 2010 6:02
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE

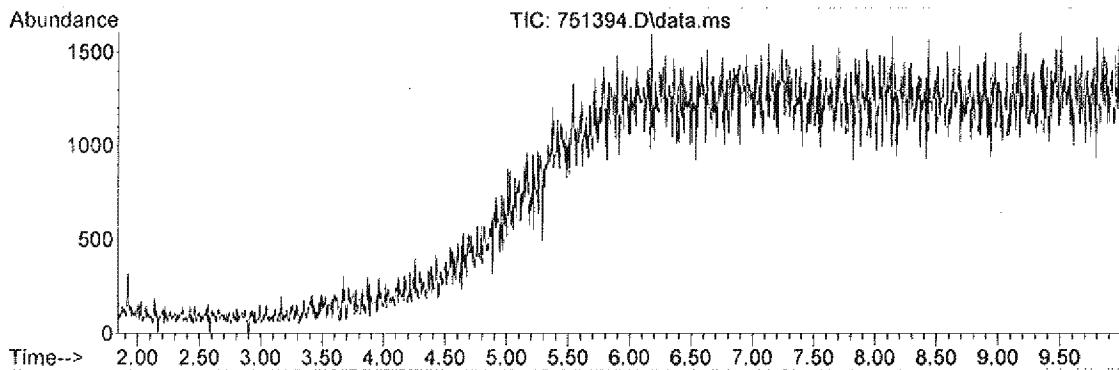


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751394.D
Operator : ASD
Date Acquired : 29 Oct 2010 6:16
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE

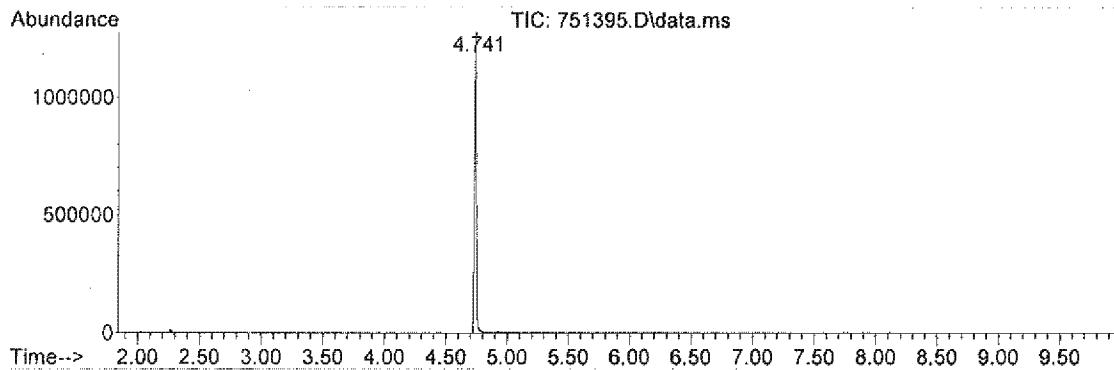


Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751395.D
Operator : ASD
Date Acquired : 29 Oct 2010 6:29
Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 95
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
4.741	1350927	100.00	100.00

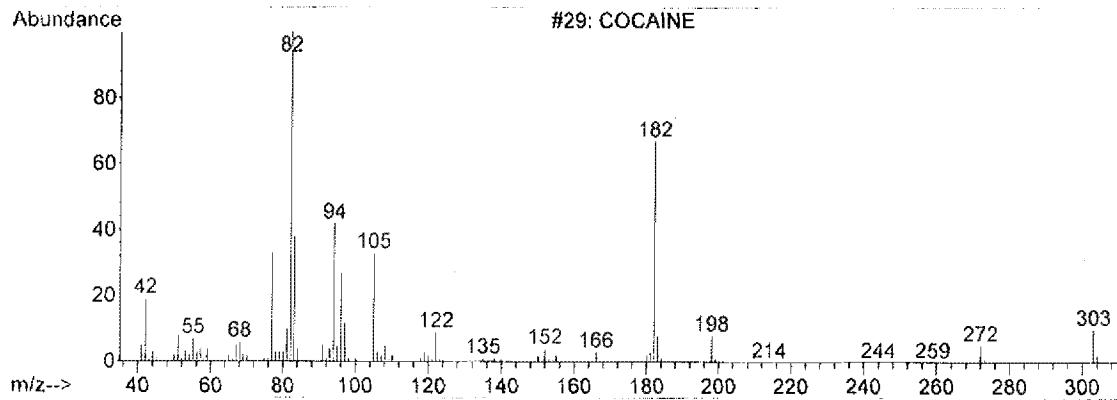
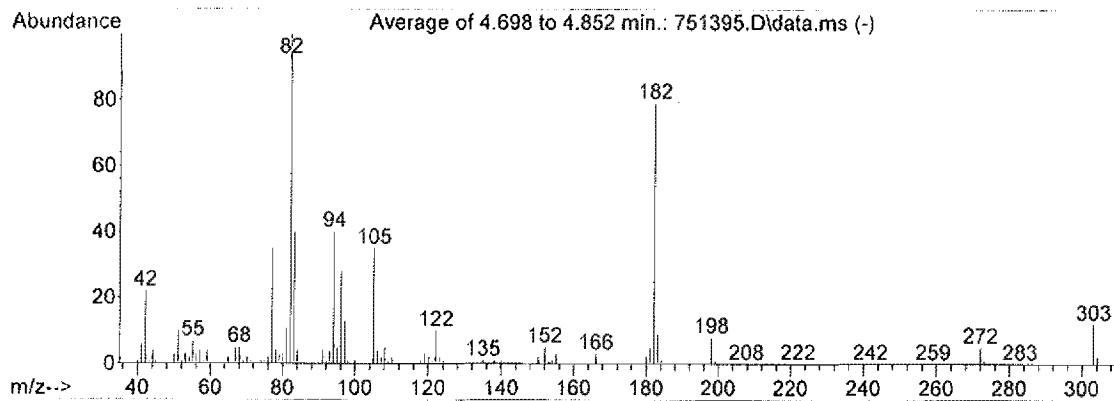
Area Percent / Library Search Report

Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751395.D
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Sample Name : COCAINE STD
Submitted by : ASD
Vial Number : 95
AcquisitionMeth: DRUGS
Integrator : RTE

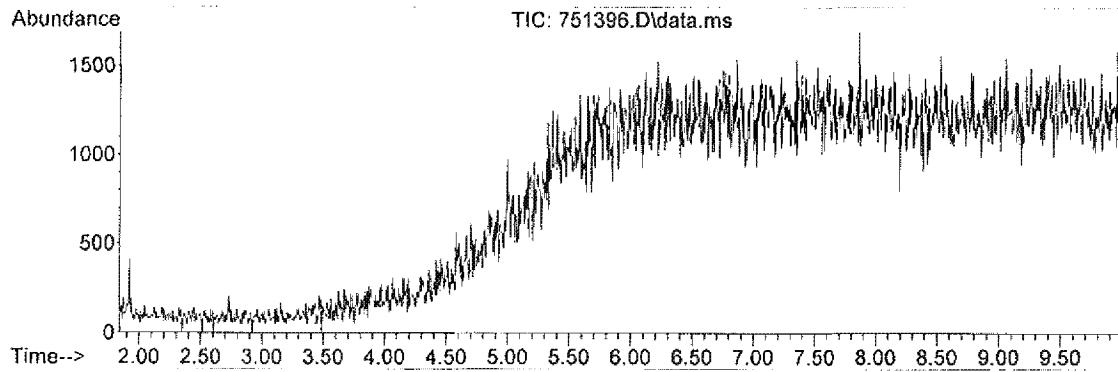
Search Libraries: C:\Database\SLI.L Minimum Quality: 80
C:\Database\NIST05a.L Minimum Quality: 70
C:\Database\PMW_TOX2.L

PK#	RT	Library/ID	CAS#	Qual
1	4.74	C:\Database\SLI.L COCAINE	000050-36-2	99



Information from Data File:

File Name : F:\Q4-2010\SYSTEM4\10_28_10\751396.D
Operator : ASD
Date Acquired : 29 Oct 2010 6:43
Sample Name : BLANK
Submitted by : ASD
Vial Number : 2
AcquisitionMeth: DRUGS
Integrator : RTE



Ret. Time	Area	Area %	Ratio %
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NO INTEGRATED PEAKS